Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2018-03-22-04**

Date: 24-03-18

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division

Agency : Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20

Customer's Reference : EE/DD/WO/318/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-03-18

Sample ID No : 2018-03-19-01 /01

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 22-03-18

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.45	–
2	Finess by Air permeablity method (m^2/kg,Min)	266.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	185 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-22-04** **Date: 25-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division
Agency	:	Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20
Customer's Reference	:	EE/DD/WO/318/17-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	22-03-18
Sample ID No	:	2018-03-19-01 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	321	321	2.1	97.9	90-100
3	20 mm	5657	5978	39.9	60.1	30-70
4	10 mm	4457	10435	69.6	30.4	10-35
5	4.75 mm	4234	14669	97.8	2.2	0-5
6	Pan	331	15000	100.0	0	---

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-22-04** **Date: 25-03-18**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore
Address	:	Shettyhalli Sub Division, BBMP, Bangalore
Project Name	:	Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division
Agency	:	Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20
Customer Reference	:	EE/DD/WO/318/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	22-03-18
Sample ID No	:	2018-03-19-01 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	22-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2678	2921	58.4	41.6	25-55
4	4.75 mm	1789	4710	94.2	5.8	0-10
5	Pan	290	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-22-04** **Date: 25-03-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division

Agency : Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20

Customer's Reference : EE/DD/WO/318/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-03-18

Sample ID No : 2018-03-19-01 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 22-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	84	84	8.4	91.6	90-100	90-100	90-100	95-100
3	2.36 mm	145	229	22.9	77.1	60-95	75-100	85-100	95-100
4	1.18 mm	176	405	40.5	59.5	30-70	55-90	75-100	90-100
5	600 micron	189	594	59.4	40.6	15-34	35-59	60-79	80-100
6	300 micron	175	769	76.9	23.1	5-20	8-30	12-40	15-50
7	150 micron	145	914	91.4	8.6	0-10	0-10	0-10	0-15
8	Pan	86	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : CP-2018-04-13-02/02 **Date: 17-04-18**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division

Agency : Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20

Customer's Reference : EE/DD/WO/318/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-04-18

Sample ID No : 2018-04-13-02 /02-06

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 13/04/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.48	100.49	1.316	4474	83.9	18.8	17.4	21.8
2	Cover Slab-2	75.46	100.50	1.342	4471	84.3	18.9	17.5	21.9
3	Cover Slab-3	75.52	100.53	1.378	4478	86.5	19.3	18.0	22.5

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-04-12-02** **Date: 18/04/2018**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore

Address : Shettyhalli Sub Division, BBMP, Bangalore

Project Name : Improvements to Roads and Drains of Medarahalli Janatha Colony Southern side cross roads in Ward No. 12, ShettyhalliSub-Division

Agency : Sri. Dhananjaya ML, No. 6/1, 2nd Coss, RK Street, Seshadripuram, Bangalore-20

Customer's Reference : EE/DD/WO/318/17-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-18

Sample ID No : 2018-04-12-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	11/04/2018	18/04/2018	149.26 X 149.21 X 149.76	22271	8.336	396.1	17.8	18.6
2	M20 Concrete	M20	11/04/2018	18/04/2018	151.68 X 149.18 X 149.66	22627	8.370	428.7	18.9	
3	M20 Concrete	M20	11/04/2018	18/04/2018	149.05 X 151.24 X 151.15	22542	8.311	426.9	18.9	

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